

CATALYST OF OLEFIN LOW POLYMERIZATION AND LOW POLYMERIZATION OF OLEFIN

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Abstract of JP8325317

PURPOSE: To obtain the subject catalyst comprising a chromium compound, an alkyl metal compound and a specific Lewis acid, capable of carrying out low polymerization reaction in extremely high activity.
CONSTITUTION: This catalyst for low polymerization for an olefin comprises (A) a chromium compound, (B) an alkyl metal compound and (C) a Lewis acid of the formula $M(Ar)_1$ (l is 2-4; M is an element of the group IIB, IIIB or IV B group of the periodic table; Ar is an aryl) such as tris (pentafluorophenyl) boron. Preferably the component A is a compound of the formula $CrAmBn$ (m is 1-6; n is 0-4; A is a 1-20C alkyl, alkoxy, carboxyl, β-diketonate, etc.; B is a nitrogen-containing compound, a phosphorus-containing compound, an arsine-containing compound, etc.), the component B is a compound of the formula $M'RpXq$ (P is $0 < p \leq 3$; q is $0 \leq q < 3$, p+q is 1-3; M' is lithium, magnesium, zinc, etc.; R is a 1-10C alkyl; X is H, an alkoxy, aryl, etc.), the olefin is ethylene and a main component substance is 1-hexene.

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